AV8B MAINTENANCE TRAINING

6282 MAINTENANCE TRAINING

AV8B MAINTENANCE TRAINING

A.01 (A thru T)	Special / Support Equipment
A.02 (A thru T)	Aircraft Publications, Diagrams, Sketches And Drawings
A.03 (A thru F)	Precision Measuring Equipment
A.04 (A thru C)	Aircraft ground Handling and Common Maintenance Practices
A.05 (A thru D)	Explosive Devices
B.01 (A thru C)	Scheduled / Unscheduled Inspections
B.02 (A thru C)	Ejection Seat System
B.03 (A thru D)	Canopy System
B.04 (A thru D)	Anti-“G” System
B.05 (A thru D)	Cabin Cooling/Defog System
B.06 (A thru D)	Cabin Pressurization System
B.07 (A thru D)	Canopy Seal System
B.08 (A thru D)	Forward Avionics Cooling System
B.09 (A thru D)	On-Board Oxygen Generating System (OBOGS)
B.10 (A thru D)	Rear Equipment Cooling System
B.11 (A thru B)	TAV-8B Ejection Seat System
B.12 (A thru D)	TAV-8B Canopy System
B.13 (A thru D)	TAV-8B Cabin Cooling And Defog System
B.14 (A thru D)	TAV-8B Cabin Pressurization System
B.15 (A thru D)	TAV-8B Canopy Seal System
B.16 (A thru D)	TAV-8B Forward Avionics Cooling System
B.17 (A thru D)	TAV-8B On-Board Oxygen Generating System (OBOGS)
B.18 (A thru D)	Radar Set
B.19 (A thru D)	Radar Environmental Control Systems (ECS)

MOS 6282 LESSON GUIDES

AV8B MAINTENANCE TRAINING

LESSON GUIDE NUMBER: MOS 6282 A.01 (A-T)

SPECIAL / SUPPORT EQUIPMENT

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A. LECTURE NUMBER: MOS 6282 A.01 (A-T)

B. TIME: 1.5 Hours

C. DATE PREPARED: 31 Mar 04

D. DATE REVIEWED: On separate sheet

E. TITLE: Support/Special Equipment

F. OBJECTIVE: Student will be able to demonstrate/apply knowledge of the operation, care, and maintenance requirements of applicable work center support/special equipment.

G. INSTRUCTIONAL AIDES:

H. REFERENCES:

1. A1-AV8BB-GAI-500, ORGANIZATIONAL MAINTENANCE PLANE CAPTAIN MANUAL
2. A1-AV8BB-MRC-200, DAILY/SPECIAL/PRESERVATION MAINTENANCE REQUIREMENTS CARDS
3. AG-000VB-OMP-000, OPERATION INSTRUCTIONS AND INTERMEDIATE MAINTENANCE WITH ILLUSTRATED PARTS BREAKDOWN MISCELLANEOUS PECULIAR SUPPORT EQUIPMENT
4. A1-AV8BB(E)-410-200, ORGANIZATIONAL MAINTENANCE TESTING AND TROUBLESHOOTING ENVIRONMENTAL CONTROL SYSTEM
5. A1-AV8BB-120-200, ORGANIZATIONAL MAINTENANCE TESTING AND TROUBLESHOOTING EJECTION SEAT AND CANOPY SYSTEM
6. A1-AV8BB-120-300, ORGANIZATIONAL MAINTENANCE SYSTEM MAINTENANCE WITH IPB EJECTION SEAT AND CANOPY SYSTEM
7. AG-220MF-MMI-000, operation, care, and maintenance of the Ejection seat holding fixture T12995-1
8. AG-501AC-MRC-100, PREOPERATIONAL CHECKLIST COMPOSITE STRUCTURE TEMPERATURE/ VACUUM CONTROL REPAIR SET PART NUMBER 74D110165-1001

I. PRESENTATION: NOTE: Stress all WARNINGS, CAUTIONS and NOTES.

1. Discuss operation, care, and maintenance of the Portable hoisting unit (crane), 1262AS100-1. REF: A1-AV8BB-120-300, A1-AV8BB-MRC-200
2. Discuss operation, care, and maintenance of the Canopy maintenance fixture 75D120001-1001. REF: AG-000VB-OMP-000
3. Discuss operation, care, and maintenance of the Ejection seat holding fixture T12995-1. REF: AG-220MF-MMI-000
4. Discuss operation, care, and maintenance of the Aircraft ground safety canopy pin 75D110031-1003. REF: A1-AV8BB-GAI-500

5. Discuss operation, care, and maintenance of the Maintenance seat safety streamer 472P950D056-17. REF: A1-AV8BB-GAI-500
6. Discuss operation, care, and maintenance of the Initiator maintenance safety pin (3) 10522817. REF: A1-AV8BB-120-300
7. Discuss operation, care, and maintenance of the Canopy sling assembly 75D110034-1003. REF: A1-AV8BB-120-300
8. Discuss operation, care, and maintenance of the Seat lifting sling 472P950E055-1. REF: A1-AV8BB-120-300
9. Discuss operation, care, and maintenance of the Cockpit floor electrical receptacle connector protector, 75D110030-1001. REF: A1-AV8BB-120-300
10. Discuss operation, care, and maintenance of the Height adjustment actuator control assembly 472P950E57-1. REF: A1-AV8BB-120-300, A1-AV8BB-MRC-200
11. Discuss operation, care, and maintenance of the Pitot static pressure adapter set 75D490000-1001. REF: AG-000VB-OMP-000
12. Discuss operation, care, and maintenance of the Pressure temperature test set TTU-205D 18910480000. REF: A1-AV8BB-120-200
13. Discuss operation, care, and maintenance of the Repair set (VACUUM-BAG) 74D110165-1001. REF: AG-501AC-MRC-100
14. Discuss operation, care, and maintenance of the Maintenance platform 75D110074-1001. REF: AG-000VB-OMP-000
15. Discuss operation, care, and maintenance of the Cabin pressure tester 89405. REF: A1-AV8BB(E)-410-200
16. Discuss operation, care, and maintenance of the Pneumatic control system test set 75D140003-1001. REF: AG-000VB-OMP-000
17. Discuss operation, care, and maintenance of the Forward ECS test set 75D10001-1003. REF: A1-AV8BB-410-200
18. Discuss operation, care, and maintenance of the Aircraft oxygen system test set 1582AS100-1. REF: A1-AV8BB(E)-410-200
19. Discuss operation, care, and maintenance of the Oxygen system test set 3300148-6101. REF: A1-AV8BB(E)-410-200
20. Discuss operation, care, and maintenance of the Onboard oxygen generating system test/adapter set 75D470000-1003 or 1001. REF: A1-AV8BB-MRC-200
21. Discuss operation, care, and maintenance of the Cockpit floor protector (TAV8B) 75D110112-1001. REF: A1-AV8BB-MRC-200

J. SUMMARY: During this period of instruction we covered the operation, care, and maintenance requirements of applicable work center support/special equipment.

K. QUESTION AND ANSWERS:

AV8B MAINTENANCE TRAINING

LESSON GUIDE NUMBER: MOS 6282 A.02 (A-T)

AIRCRAFT PUBLICATIONS, DIAGRAMS, SKETCHES AND DRAWINGS

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A. LECTURE NUMBER: MOS 6282 A.02 (A-T)

B. TIME: 1.5 Hours

C. DATE PREPARED: 31 Mar 04

D. DATE REVIEWED: On separate sheet

E. TITLE: Aircraft Publications, Diagrams, Sketches and Drawings

F. OBJECTIVE: Student will be able to demonstrate/apply knowledge of applicable work center Aircraft publications, diagrams, sketches and drawings.

G. INSTRUCTIONAL AIDES:

H. REFERENCES:

1. OPNAVINST 4790.2 SERIES, Naval Aviation Maintenance Program (NAMP)
2. A1-AV8BB-GAI-XXX SERIES, General Aircraft Information Series Publications
3. A1-AV8BB-IPB-450, ORGANIZATIONAL MAINTENANCE PARTS LIST
4. A1-AV8BB-MRC-XXX, Maintenance Requirement Cards
5. A1-AV8BB-WUC-800, WORK UNIT CODE
6. A1-AV8BB-AML-000, AIRCRAFT TECHNICAL DOCUMENTATION LIST
7. A1-AV8BB(E)-XXX-100, Principles of Operation Manuals
8. A1-AV8BB(E)-XXX-200, Testing & Troubleshooting Manuals
9. A1-AV8BB(E)-XXX-300, System Maintenance w/IPB Manuals
10. A1-AV8BB(E)-XXX-500, System Schematic Manuals
11. A1-AV8BB-120-350, ORGANIZATIONAL MAINTENANCE SYSTEM MAINTENANCE WITH IPB (SHOP MAINTENANCE) AIRCRAFT EJECTION SEAT SJU-4/A
12. A1-AV8BB-SRM-220, ORGANIZATIONAL, INTERMEDIATE, AND DEPOT MAINTENANCE STRUCTURE REPAIR WITH ILLUSTRATED PARTS BREAKDOWN FORWARD FUSELAGE
13. A1-AV8BB-SRM-250, ORGANIZATIONAL AND INTERMEDIATE MAINTENANCE STRUCTURE REPAIR REPAIRS AND REPLACEMENTS
14. A1-AV8BB-SRM-500, ORGANIZATIONAL, INTERMEDIATE, AND DEPOT MAINTENANCE AIRCRAFT CORROSION CONTROL
15. A1-AV8BD-290-300, ORGANIZATIONAL MAINTENANCE SYSTEM MAINTENANCE WITH IPB, POWER PLANT AND RELATED SYSTEMS
16. NAVAIR 11-100-1 series, Cartridges & Cartridge Actuated Devices
17. NAVAIR 00-80R-14, NATOPS U.S. NAVY AIRCRAFT FIREFIGHTING AND RESCUE MANUAL
18. NAVAIR 01-1A-509, AIRCRAFT WEAPONS SYSTEMS CLEANING AND CORROSION CONTROL

19. NAVAIR 00-25-100, NAVAL AIR SYSTEMS COMMAND TECHNICAL MANUAL PROGRAM
20. ICAPS Manual, ICAPS

I. PRESENTATION: NOTE: Stress all WARNINGS, CAUTIONS and NOTES.

1. Discuss the Naval Aviation Maintenance Program (NAMP). REF: OPNAVINST 4790.2 series
2. Discuss the Technical Manual Program. REF: NA 00-25-100
3. Discuss the Aircraft Manuals List. REF: A1–AV8BB-AML-000
4. Discuss General Aircraft Information Series Publications. REF: A1–AV8BB-GAI-XXX series
5. Discuss Part Index List. REF: A1–AV8BB-IPB-450
6. Discuss Maintenance Requirement Cards. REF: A1–AV8BB-MRC-XXX
7. Discuss the Work Unit Code Manual. REF: A1–AV8BB-WUC-800
8. Discuss the Principles of Operation Manuals. REF: A1–AV8BB(E)-XXX-100
9. Discuss the Testing & Troubleshooting Manuals. REF: A1–AV8BB(E)-XXX-200
10. Discuss the System Maintenance w/IPB Manuals. REF: A1–AV8BB(E)-XXX-300
11. Discuss the System Schematic Manuals. REF: A1–AV8BB(E)-XXX-500
12. Discuss the System Maintenance manual. REF: A1–AV8BB-120-350,
13. Discuss the Power Plant and Related Systems manual. REF: A1–AV8BD-290-300
14. Discuss the Structure Repair - Forward Fuselage Manual. REF: A1–AV8BB-SRM-220
15. Discuss the Discuss the Structure Repair – Typical Repairs Manual. REF: A1–AV8BB-SRM-200
16. Discuss the Aircraft Corrosion Control Manual. REF: A1–AV8BB-SRM-500
17. Discuss the Aircraft Weapons Systems Cleaning and Corrosion Control Manual. REF: NA 01-1A-509
18. Discuss the Cartridges & Cartridge Actuated Devices manual. REF: NA 11-100-1 series
19. Discuss the ICAPS Manual. REF: ICAPS Manual
20. Discuss the NATOPS U.S. Navy ACFT Firefighting and Rescue Manual. REF: NA 01-80R-14

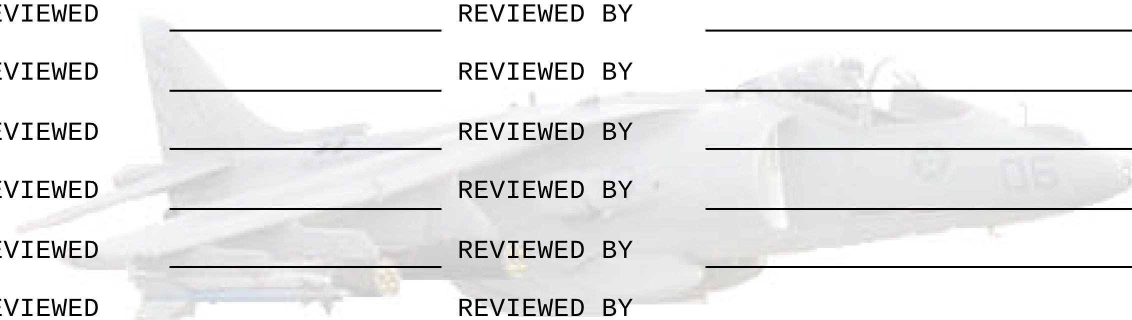
J. SUMMARY: During this period of instruction we covered applicable work center Aircraft publications, diagrams, sketches and drawings.

K. QUESTION AND ANSWERS:

AV8B MAINTENANCE TRAINING

LESSON GUIDE NUMBER: MOS 6282 A.03 (A-F)

PRECISION MEASURING EQUIPMENT



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A. LECTURE NUMBER: MOS 6282 A.03 (A-F)

B. TIME: 1.5 Hours

C. DATE PREPARED: 31 Mar 04

D. DATE REVIEWED: On separate sheet

E. TITLE: Precision Measuring Equipment

F. OBJECTIVE: Student will be able to demonstrate/apply knowledge of the operation of applicable work center precision measuring equipment.

G. INSTRUCTIONAL AIDES:

H. REFERENCES:

1. A1-AV8BD-290-300, ORGANIZATIONAL MAINTENANCE SYSTEM MAINTENANCE WITH IPB, POWER PLANT AND RELATED SYSTEMS
2. A1-AV8BB-MRC-200, DAILY/SPECIAL/PRESERVATION MAINTENANCE REQUIREMENTS CARDS
3. A1-AV8BB-SRM-250, ORGANIZATIONAL AND INTERMEDIATE MAINTENANCE STRUCTURE REPAIR REPAIRS AND REPLACEMENTS
4. A1-AV8BB-410-200, ORGANIZATIONAL MAINTENANCE TESTING AND TROUBLESHOOTING ENVIRONMENTAL CONTROL SYSTEM
5. MULTIMETER, Manufactures manual

I. PRESENTATION: NOTE: Stress all WARNINGS, CAUTIONS and NOTES.

1. Discuss operation of Torque wrenches. REF: A1-AV8BD-290-300
2. Discuss operation of the optical micrometer. REF: A1—AV8BB-SRM-250
3. Discuss operation of the spring resiliency tester DDP1-1-100 (0-100 lbs). REF: A1—AV8BB-MRC-200
4. Discuss operation of the initiator pull test tool 472P950C090-3. REF: A1—AV8BB-MRC-200
5. Discuss operation of a multimeter. REF: Manufactures Manual
6. Discuss operation of the leak detector, 4918A. REF: A1—AV8BB-140-200

J. SUMMARY: During this period of instruction we covered the operation of applicable work center precision measuring equipment.

K. QUESTION AND ANSWERS:

AV8B MAINTENANCE TRAINING

LESSON GUIDE NUMBER: MOS 6282 A.04 (A-C)

AIRCRAFT GROUND HANDLING and COMMON MAINTENANCE PRACTICES

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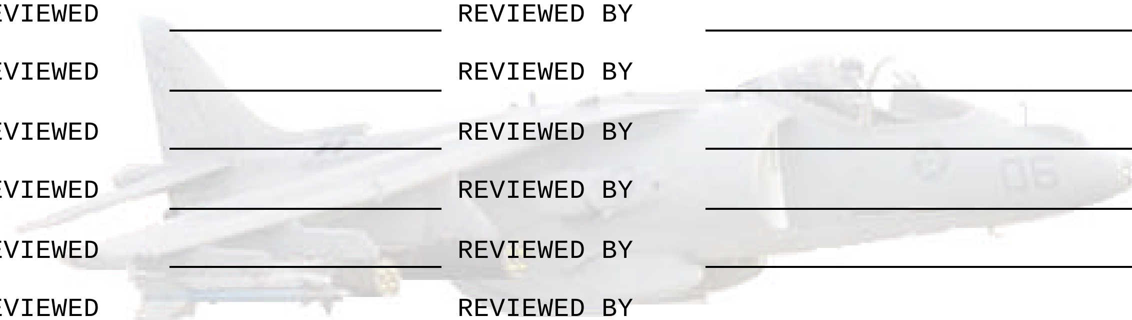

A. LECTURE NUMBER: 6282 A.04 (A-C)

B. TIME: 1.5 Hours

C. DATE PREPARED: 31 Mar 04

D. DATE REVIEWED: On separate sheet

E. TITLE: Aircraft Ground Handling and Common Maintenance Practices

F. OBJECTIVE: Student will be able to demonstrate/apply knowledge of applicable work center Aircraft Ground Handling and Common Maintenance Practices.

G. INSTRUCTIONAL AIDES:

H. REFERENCES:

1. A1-AV8BB-GAI-100, ORGANIZATIONAL MAINTENANCE LINE MAINTENANCE PROCEDURES
2. A1-AV8BB-GAI-500, ORGANIZATIONAL MAINTENANCE PLANE CAPTAIN MANUAL
3. A1-AV8BD-290-300, ORGANIZATIONAL MAINTENANCE SYSTEM MAINTENANCE WITH IPB, POWER PLANT AND RELATED SYSTEMS
4. NAVAIR 13-1-6.1-1, AVIATION-CREW SYSTEMS INFLATABLE SURVIVAL EQUIPMENT (LIFERAFTS)
5. NAVAIR 13-1-6.3, AVIATION-CREW SYSTEMS SEAT SURVIVAL KITS (OXYGEN HOSES AND NON-SKU-SERIES SEAT KITS)

I. PRESENTATION: NOTE: Stress all WARNINGS, CAUTIONS and NOTES.

1. Discuss the installation of aircraft safety devices and locks. REF: A1-AV8BB-GAI-500
2. Discuss the installation of aircraft protective devices and covers. REF: A1-AV8BB-GAI-500
3. Discuss the application of aircraft electrical power. REF: A1-AV8BB-GAI-100
4. Discuss aircraft washing procedures and safety. REF: NA 01-1A-509
5. Discuss common maintenance practices associated with component removal and replacement techniques. REF: A1-AV8BD-290-300
6. Discuss common maintenance practices associated with torque procedures. REF: A1-AV8BD-290-300
7. Discuss common maintenance practices associated with retention fasteners. REF: A1-AV8BD-290-300
8. Discuss common maintenance practices associated with lockwire procedures. REF: A1-AV8BD-290-300
9. Discuss principles of gases in life support systems. REF: NA 13-1-6.1-1, NA 13-1-6.3

J. SUMMARY: During this period of instruction we covered applicable work center Aircraft Ground Handling and Common Maintenance Practices.

K. QUESTION AND ANSWERS:

AV8B MAINTENANCE TRAINING

LESSON GUIDE NUMBER: MOS 6282 A.05 (A-D)

EXPLOSIVE DEVICES

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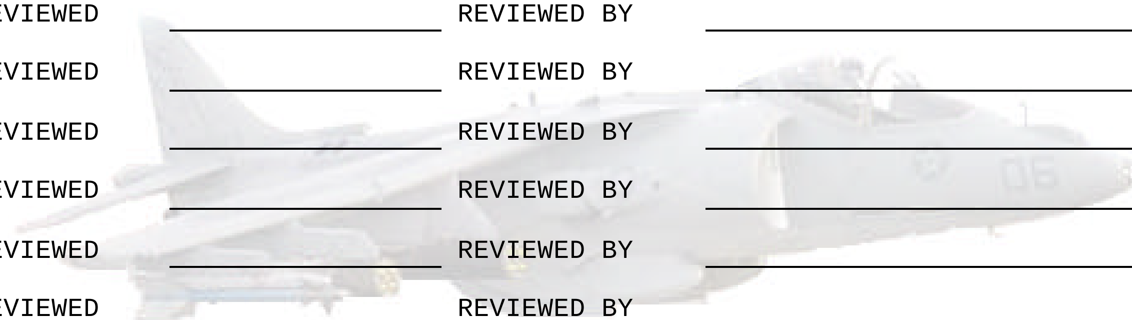

A. LECTURE NUMBER: 6282 A.05 (A-D)

B. TIME: 1.5 Hours

C. DATE PREPARED: 31 Mar 04

D. DATE REVIEWED: On separate sheet

E. TITLE: Explosive Devises

F. OBJECTIVE: Student will be able to demonstrate/apply knowledge of applicable Explosive Devises.

G. INSTRUCTIONAL AIDES:

H. REFERENCES:

1. NAVAIR 11-100-1, CARTRIDGE ACTUATED DEVICES (CADS) AND PROPELLANT ACTUATED DEVICES (PADS)(IETM)

I. PRESENTATION: NOTE: Stress all WARNINGS, CAUTIONS and NOTES.

1. Discuss Safety/handling of explosive devices. REF: NA 11-100-1
2. Discuss Storage of explosive devices. REF: NA 11-100-1
3. Discuss Computation of shelf/service/expiration dates. REF: NA 11-100-1
4. Discuss Cartridges. REF: NA 11-100-1
5. Discuss Cartridge actuated devices. REF: NA 11-100-1
6. Discuss Expiration dates. REF: NA 11-100-1

J. SUMMARY: During this period of instruction we covered applicable Explosive Devises.

K. QUESTION AND ANSWERS:

AV8B MAINTENANCE TRAINING

LESSON GUIDE NUMBER: MOS 6282 B.01 (A-C)

REQUIRED SCHEDULED/UNSCHEDULED INSPECTIONS

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A. LECTURE NUMBER: MOS 6282 B.01 (A-C)

B. TIME: 1.5 Hours

C. DATE PREPARED: 31 Mar 04

D. DATE REVIEWED: On separate sheet

E. TITLE: Required Scheduled/Unscheduled Inspections

F. OBJECTIVE: Student will be able to demonstrate/apply knowledge of applicable work center Required Scheduled/Unscheduled Inspections.

G. INSTRUCTIONAL AIDES:

H. REFERENCES:

1. OPNAVINST 4790.2_, Naval Aviation Maintenance Program
2. A1-AV8BB-MRC-000, PERIODIC MAINTENANCE INFORMATION CARDS
3. A1-AV8BB-MRC-200, DAILY/SPECIAL/PRESERVATION MAINTENANCE REQUIREMENTS CARDS
4. A1-AV8BB-MRC-300, PHASED MAINTENANCE REQUIREMENTS CARDS

I. PRESENTATION: NOTE: Stress all WARNINGS, CAUTIONS and NOTES.

1. Discuss the Periodic Maintenance Information Cards. REF: A1-AV8BB-MRC-000
2. Discuss the Daily/Servicing/Special/Preservation/Conditional Requirements. REF: A1-AV8BB-MRC-200
3. Discuss the 14-Day Special Inspection. REF: A1-AV8BB-MRC-200
4. Discuss the 28-Day Special Inspection. REF: A1-AV8BB-MRC-200
5. Discuss the 50-Hour Special Inspection. REF: A1-AV8BB-MRC-200
6. Discuss the 100-Hour Special Inspection. REF: A1-AV8BB-MRC-200
7. Discuss the 500 hour Special Inspection. REF: A1-AV8BB-MRC-200
8. Discuss the 56-Day Special Inspection. REF: A1-AV8BB-MRC-200
9. Discuss the 364-Day Special Inspection. REF: A1-AV8BB-MRC-200
10. Discuss the 448-Day Special Inspection. REF: A1-AV8BB-MRC-200
11. Discuss preservation. REF: A1-AV8BB-MRC-200
12. Discuss the Phase Maintenance inspection requirements. REF: A1-AV8BB-MRC-300
13. Discuss the acceptance and transfer inspections. REF: OPNAVINST 4790.2_

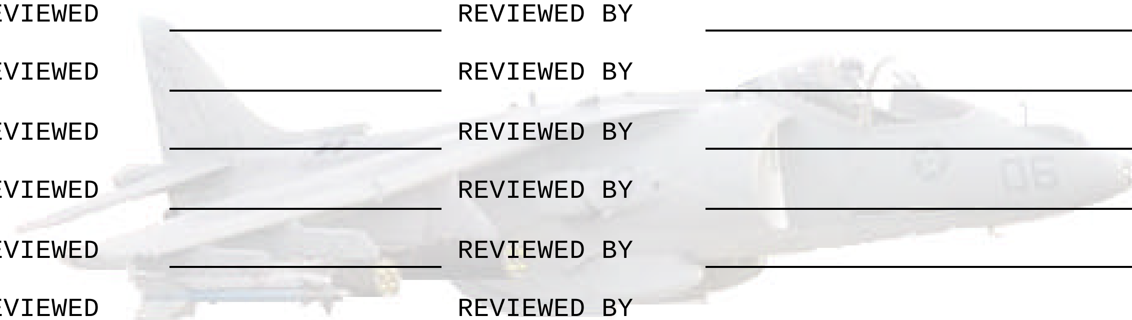
J. SUMMARY: During this period of instruction we covered applicable work center Aircraft Ground Handling and Common Maintenance Practices.

K. QUESTION AND ANSWERS:

AV8B MAINTENANCE TRAINING

LESSON GUIDE NUMBER: MOS 6282 B.02 (A-C)

EJECTION SEAT SYSTEM



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A. LECTURE NUMBER: MOS 6282 B.02 (A-C)

B. TIME: 1.5 Hours

C. DATE PREPARED: 31 Mar 04

D. DATE REVIEWED: On separate sheet

E. TITLE: Ejection Seat System

F. OBJECTIVE: Student will be able to demonstrate/apply knowledge of the Ejection Seat System theory of operation, troubleshooting, and maintenance procedures.

G. INSTRUCTIONAL AIDES:

H. REFERENCES:

1. OPNAVINST 4790.2_, Naval Aviation Maintenance Program
2. A1-AV8BB-120-100, ORGANIZATIONAL MAINTENANCE PRINCIPLES OF OPERATION EJECTION SEAT AND CANOPY SYSTEM
3. A1-AV8BB-120-200, ORGANIZATIONAL MAINTENANCE TESTING AND TROUBLESHOOTING EJECTION SEAT AND CANOPY SYSTEM
4. A1-AV8BB-120-300, ORGANIZATIONAL MAINTENANCE SYSTEM MAINTENANCE WITH IPB EJECTION SEAT AND CANOPY SYSTEM
5. A1-AV8BB-120-350, ORGANIZATIONAL MAINTENANCE SYSTEM MAINTENANCE WITH IPB (SHOP MAINTENANCE) AIRCRAFT EJECTION SEAT SJU-4/A

I. PRESENTATION: NOTE: Stress all WARNINGS, CAUTIONS and NOTES.

1. Discuss the theory of operation for the Ejection Seat System. REF: A1-AV8BB-120-100
2. Discuss the troubleshooting of the Ejection Seat System. REF: A1-AV8BB-120-200
3. Discuss removal and replacement of the Ejection seat (SJU-4/A). REF: A1-AV8BB-120-300
4. Discuss removal and replacement of the Seat height actuator. REF: A1-AV8BB-120-300
5. Discuss removal and replacement of the airspeed/altitude sensor. REF: A1-AV8BB-120-300
6. Discuss removal and replacement of the Thruster assembly. REF: A1-AV8BB-120-300
7. Discuss removal and replacement of the Ejection control cable assembly. REF: A1-AV8BB-120-350
8. Discuss removal and replacement of the nose Emergency release handle assembly. REF: A1-AV8BB-120-350
9. Discuss removal and replacement of the Safe arm control handle assembly. REF: A1-AV8BB-120-350
10. Discuss removal and replacement of the inertia reel assembly. REF: A1-AV8BB-120-350

11. Discuss removal and replacement of the drogue/container assembly. REF: A1-AV8BB-120-350
12. Discuss removal and replacement of the initiation subsystem assembly assembly. REF: A1-AV8BB-120-350
13. Discuss removal and replacement of the guillotine assembly. REF: A1-AV8BB-120-350
14. Discuss removal and replacement of the survival kit assembly. REF: A1-AV8BB-120-350
15. Discuss removal and replacement of the 7000-ft aneroid actuated initiator. REF: A1-AV8BB-120-350
16. Discuss removal and replacement of the 14000-ft aneroid actuated initiator. REF: A1-AV8BB-120-350
17. Discuss removal and replacement of the seat/man separation initiators (M688). REF: A1-AV8BB-120-350
18. Discuss removal and replacement of the catapult cartridge. REF: A1-AV8BB-120-350
19. Discuss removal and replacement of the inertia reel gas generator initiators. REF: A1-AV8BB-120-350
20. Discuss removal and replacement of the JAU 13/A multi-nondivegence time delay. REF: A1-AV8BB-120-350
21. Discuss removal and replacement of the JAU 14/A 3.0 sec time delay. REF: A1-AV8BB-120-350
22. Discuss removal and replacement of the seat back rocket motors. REF: A1-AV8BB-120-350
23. Discuss removal and replacement of the WORD motor/drogue assembly. REF: A1-AV8BB-120-350
24. Discuss servicing of the DART assembly. REF: A1-AV8BB-120-350
25. Discuss removal and replacement of the headrest assembly. REF: A1-AV8BB-120-350
26. Discuss removal and replacement of the low speed selector valve. REF: A1-AV8BB-120-350
27. Discuss removal and replacement of the inertia reel control assembly. REF: A1-AV8BB-120-350
28. Discuss removal and replacement of the leg restraints assembly. REF: A1-AV8BB-120-350
29. Discuss removal and replacement of the riser storage pouch assembly. REF: A1-AV8BB-120-350
30. Discuss removal and replacement of the riser assembly. REF: A1-AV8BB-120-350
31. Discuss removal and replacement of the outer L/H trombone assembly. REF: A1-AV8BB-120-350
32. Discuss removal and replacement of the outer R/H trombone assembly. REF: A1-AV8BB-120-350
33. Discuss emergency procedures. REF: A1-AV8BB-120-350
34. Discuss removal and replacement of the MF72 initiator. REF: A1-AV8BB-120-350
35. Discuss removal and replacement of the inner L/H trombone assembly. REF: A1-AV8BB-120-350

36. Discuss removal and replacement of the inner R/H trombone assembly. REF: A1-AV8BB-120-350
37. Discuss removal and replacement of the emergency landing gear extension bottle. REF: A1-AV8BB-120-350
38. Discuss removal and replacement of the parachute container opener. REF: A1-AV8BB-120-350

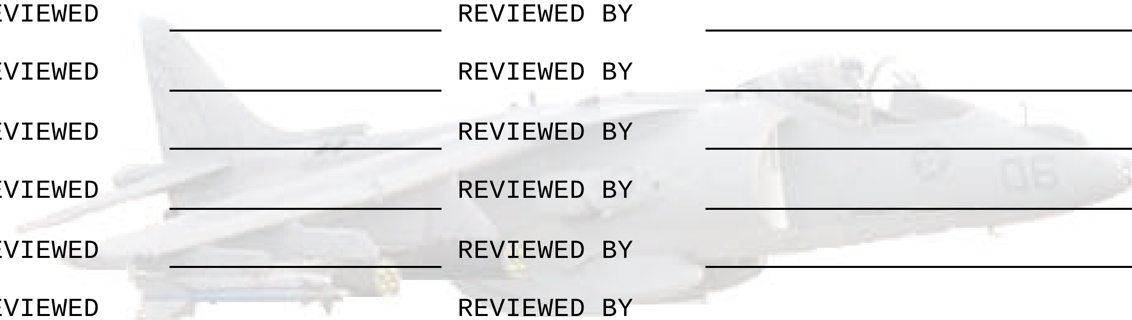
J. SUMMARY: During this period of instruction we covered Ejection Seat System theory of operation, troubleshooting, and maintenance procedures.

K. QUESTION AND ANSWERS:

AV8B MAINTENANCE TRAINING

LESSON GUIDE NUMBER: MOS 6282 B.03 (A-D)

CANOPY SYSTEM



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A. LECTURE NUMBER: MOS 6282 B.03 (A-D)

B. TIME: 1.5 Hours

C. DATE PREPARED: 31 Mar 04

D. DATE REVIEWED: On separate sheet

E. TITLE: Canopy System

F. OBJECTIVE: Student will be able to demonstrate/apply knowledge of the Canopy System principles of operation, testing, troubleshooting, and maintenance procedures.

G. INSTRUCTIONAL AIDES:

H. REFERENCES:

1. OPNAVINST 4790.2_, Naval Aviation Maintenance Program
2. A1-AV8BB-120-100, ORGANIZATIONAL MAINTENANCE PRINCIPLES OF OPERATION EJECTION SEAT AND CANOPY SYSTEM
3. A1-AV8BB-120-200, ORGANIZATIONAL MAINTENANCE TESTING AND TROUBLESHOOTING EJECTION SEAT AND CANOPY SYSTEM
4. A1-AV8BB-120-300, ORGANIZATIONAL MAINTENANCE SYSTEM MAINTENANCE WITH IPB EJECTION SEAT AND CANOPY SYSTEM
5. A1-AV8BB-120-350, ORGANIZATIONAL MAINTENANCE SYSTEM MAINTENANCE WITH IPB (SHOP MAINTENANCE) AIRCRAFT EJECTION SEAT SJU-4/A
6. A1-AV8BB-SRM-220, ORGANIZATIONAL, INTERMEDIATE, AND DEPOT MAINTENANCE STRUCTURE REPAIR WITH ILLUSTRATED PARTS BREAKDOWN FORWARD FUSELAGE
7. A1-AV8BB-SRM-250, ORGANIZATIONAL AND INTERMEDIATE MAINTENANCE STRUCTURE REPAIR REPAIRS AND REPLACEMENTS

I. PRESENTATION: NOTE: Stress all WARNINGS, CAUTIONS and NOTES.

1. Discuss the principles of operation for the Canopy System. REF: A1-AV8BB-120-100
2. Discuss the testing procedures for the Canopy System. REF: A1-AV8BB-120-200
3. Discuss the troubleshooting of the Canopy System. REF: A1-AV8BB-120-200
4. Discuss removal and replacement of the Canopy assembly. REF: A1-AV8BB-120-300
5. Discuss removal and replacement of the rain seals. REF: A1-AV8BB-120-300
6. Discuss removal and replacement of the cable assembly L/H. REF: A1-AV8BB-120-300
7. Discuss removal and replacement of the cable assembly R/H. REF: A1-AV8BB-120-300

8. Discuss removal and replacement of the retractable footstep. REF: A1-AV8BB-120-300
9. Discuss removal and replacement of the L/H and R/H latch switches. REF: A1-AV8BB-120-300
10. Discuss removal and replacement of the canopy position switch. REF: A1-AV8BB-120-350
11. Discuss removal and replacement of the acceptor assembly. REF: A1-AV8BB-120-300
12. Discuss removal and replacement of the transfer initiator. REF: A1-AV8BB-120-300
13. Discuss removal and replacement of the canopy fracturing MDC (overhead). REF: A1-AV8BB-120-300
14. Discuss removal and replacement of the canopy fracturing MDC (peripheral). REF: A1-AV8BB-120-300
15. Discuss removal and replacement of the MW18 shielded mild detonating cord kit. REF: A1-AV8BB-120-300
16. Discuss canopy damage evaluation. REF: A1-AV8BB-SRM-220
17. Discuss canopy transparency repair. REF: A1-AV8BB-SRM-250

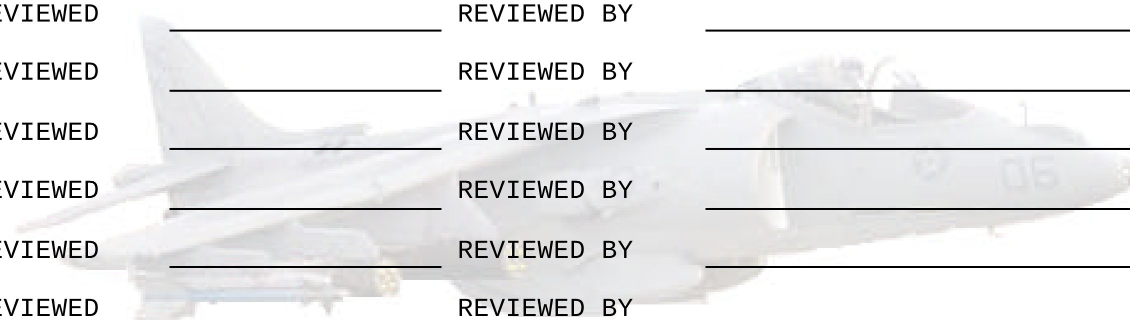
J. SUMMARY: During this period of instruction we covered Canopy System principles of operation, testing, troubleshooting, and maintenance procedures.

K. QUESTION AND ANSWERS:

AV8B MAINTENANCE TRAINING

LESSON GUIDE NUMBER: MOS 6282 B.04 (A-D)

ANTI-“G” SYSTEM



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A. LECTURE NUMBER: MOS 6282 B.04 (A-D)

B. TIME: 1.5 Hours

C. DATE PREPARED: 31 Mar 04

D. DATE REVIEWED: On separate sheet

E. TITLE: Anti-“G” System

F. OBJECTIVE: Student will be able to demonstrate/apply knowledge of the Anti-“G” System principles of operation, testing, troubleshooting, and maintenance procedures.

G. INSTRUCTIONAL AIDES:

H. REFERENCES:

1. OPNAVINST 4790.2_, Naval Aviation Maintenance Program
2. A1-AV8BB-410-100, ORGANIZATIONAL MAINTENANCE PRINCIPLES OF OPERATION ENVIRONMENTAL CONTROL SYSTEM
3. A1-AV8BB-410-200, ORGANIZATIONAL MAINTENANCE TESTING AND TROUBLESHOOTING ENVIRONMENTAL CONTROL SYSTEM
4. A1-AV8BB-410-300, ORGANIZATIONAL MAINTENANCE SYSTEM MAINTENANCE WITH IPB ENVIRONMENTAL CONTROL SYSTEM

I. PRESENTATION: NOTE: Stress all WARNINGS, CAUTIONS and NOTES.

1. Discuss the principles of operation for the Anti-“G” System. REF: A1-AV8BB-410-100
2. Discuss the testing procedures for the Anti-“G” System. REF: A1-AV8BB-410-200
3. Discuss the troubleshooting of the Anti-“G” System. REF: A1-AV8BB-410-200
4. Discuss removal and replacement of the anti-“G” valve. REF: A1-AV8BB-410-300
5. Discuss removal and replacement of the anti-“G”/canopy seal check valve. REF: A1-AV8BB-410-300
6. Discuss removal and replacement of the anti-“G” quick disconnect. REF: A1-AV8BB-410-300

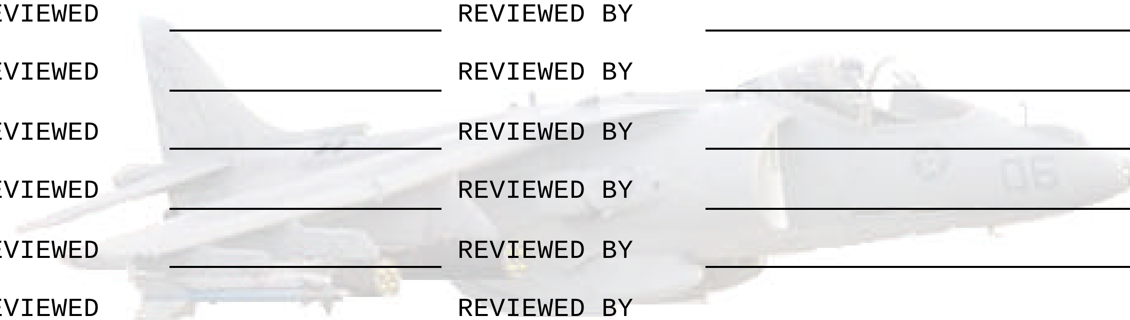
J. SUMMARY: During this period of instruction we covered Anti-“G” System principles of operation, testing, troubleshooting, and maintenance procedures.

K. QUESTION AND ANSWERS:

AV8B MAINTENANCE TRAINING

LESSON GUIDE NUMBER: MOS 6282 B.05 (A-D)

CABIN COOLING/DEFOG SYSTEM



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A. LECTURE NUMBER: MOS 6282 B.05 (A-D)

B. TIME: 1.5 Hours

C. DATE PREPARED: 31 Mar 04

D. DATE REVIEWED: On separate sheet

E. TITLE: Cabin cooling/defog System

F. OBJECTIVE: Student will be able to demonstrate/apply knowledge of the Cabin cooling/defog System principles of operation, testing, troubleshooting, and maintenance procedures.

G. INSTRUCTIONAL AIDES:

H. REFERENCES:

1. OPNAVINST 4790.2_, Naval Aviation Maintenance Program
2. A1-AV8BB-410-100, ORGANIZATIONAL MAINTENANCE PRINCIPLES OF OPERATION ENVIRONMENTAL CONTROL SYSTEM
3. A1-AV8BB-410-200, ORGANIZATIONAL MAINTENANCE TESTING AND TROUBLESHOOTING ENVIRONMENTAL CONTROL SYSTEM
4. A1-AV8BB-410-300, ORGANIZATIONAL MAINTENANCE SYSTEM MAINTENANCE WITH IPB ENVIRONMENTAL CONTROL SYSTEM

I. PRESENTATION: NOTE: Stress all WARNINGS, CAUTIONS and NOTES.

1. Discuss the principles of operation for the Cabin cooling/defog System. REF: A1-AV8BB-410-100
2. Discuss the testing procedures for the Cabin cooling/defog System. REF: A1-AV8BB-410-200
3. Discuss the troubleshooting of the Cabin cooling/defog System. REF: A1-AV8BB-410-200
4. Discuss removal and replacement of the vent defog valve. REF: A1-AV8BB-410-300
5. Discuss removal and replacement of the windshield overtemp switch. REF: A1-AV8BB-410-300
6. Discuss removal and replacement of the ECS control panel. REF: A1-AV8BB-410-300
7. Discuss removal and replacement of the skin temperature sensor. REF: A1-AV8BB-410-300
8. Discuss removal and replacement of the cabin temperature sensor. REF: A1-AV8BB-410-300
9. Discuss removal and replacement of the air filter element. REF: A1-AV8BB-410-300
10. Discuss removal and replacement of the coalescer. REF: A1-AV8BB-410-300

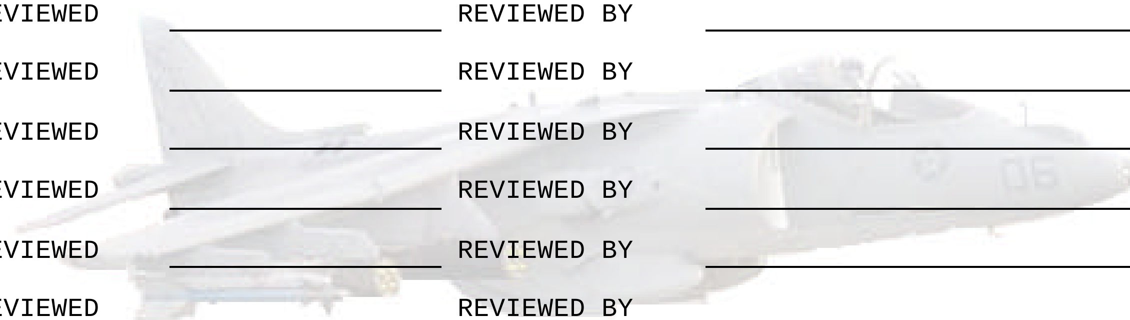
J. SUMMARY: During this period of instruction we covered Cabin cooling/defog System principles of operation, testing, troubleshooting, and maintenance procedures.

K. QUESTION AND ANSWERS:

AV8B MAINTENANCE TRAINING

LESSON GUIDE NUMBER: MOS 6282 B.06 (A-D)

CABIN PRESSURIZATION SYSTEM



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A. LECTURE NUMBER: MOS 6282 B.06 (A-D)

B. TIME: 1.5 Hours

C. DATE PREPARED: 31 Mar 04

D. DATE REVIEWED: On separate sheet

E. TITLE: Cabin pressurization System

F. OBJECTIVE: Student will be able to demonstrate/apply knowledge of the Cabin pressurization System principles of operation, testing, troubleshooting, and maintenance procedures.

G. INSTRUCTIONAL AIDES:

H. REFERENCES:

1. OPNAVINST 4790.2_, Naval Aviation Maintenance Program
2. A1-AV8BB-410-100, ORGANIZATIONAL MAINTENANCE PRINCIPLES OF OPERATION ENVIRONMENTAL CONTROL SYSTEM
3. A1-AV8BB-410-200, ORGANIZATIONAL MAINTENANCE TESTING AND TROUBLESHOOTING ENVIRONMENTAL CONTROL SYSTEM
4. A1-AV8BB-410-300, ORGANIZATIONAL MAINTENANCE SYSTEM MAINTENANCE WITH IPB ENVIRONMENTAL CONTROL SYSTEM

I. PRESENTATION: NOTE: Stress all WARNINGS, CAUTIONS and NOTES.

1. Discuss the principles of operation for the Cabin pressurization System. REF: A1-AV8BB-410-100
2. Discuss the testing procedures for the Cabin pressurization System. REF: A1-AV8BB-410-200
3. Discuss the troubleshooting of the Cabin pressurization System. REF: A1-AV8BB-410-200
4. Discuss removal and replacement of the cabin dump control valve. REF: A1-AV8BB-410-300
5. Discuss removal and replacement of the cabin pressure regulator. REF: A1-AV8BB-410-300
6. Discuss removal and replacement of the cabin safety relief valve. REF: A1-AV8BB-410-300

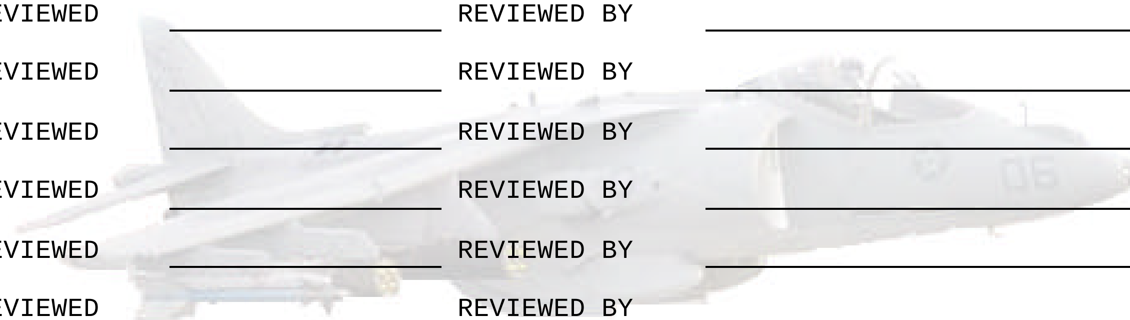
J. SUMMARY: During this period of instruction we covered Cabin pressurization System principles of operation, testing, troubleshooting, and maintenance procedures.

K. QUESTION AND ANSWERS:

AV8B MAINTENANCE TRAINING

LESSON GUIDE NUMBER: MOS 6282 B.07 (A-D)

CANOPY SEAL SYSTEM



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A. LECTURE NUMBER: MOS 6282 B.07 (A-D)

B. TIME: 1.5 Hours

C. DATE PREPARED: 31 Mar 04

D. DATE REVIEWED: On separate sheet

E. TITLE: Canopy Seal System

F. OBJECTIVE: Student will be able to demonstrate/apply knowledge of the Canopy seal system principles of operation, testing, troubleshooting, and maintenance procedures.

G. INSTRUCTIONAL AIDES:

H. REFERENCES:

1. OPNAVINST 4790.2_, Naval Aviation Maintenance Program
2. A1-AV8BB-410-100, ORGANIZATIONAL MAINTENANCE PRINCIPLES OF OPERATION ENVIRONMENTAL CONTROL SYSTEM
3. A1-AV8BB-410-200, ORGANIZATIONAL MAINTENANCE TESTING AND TROUBLESHOOTING ENVIRONMENTAL CONTROL SYSTEM
4. A1-AV8BB-410-300, ORGANIZATIONAL MAINTENANCE SYSTEM MAINTENANCE WITH IPB ENVIRONMENTAL CONTROL SYSTEM

I. PRESENTATION: NOTE: Stress all WARNINGS, CAUTIONS and NOTES.

1. Discuss the principles of operation for the Canopy seal System. REF: A1-AV8BB-410-100
2. Discuss the testing procedures for the Canopy seal System. REF: A1-AV8BB-410-200
3. Discuss the troubleshooting of the Canopy seal System. REF: A1-AV8BB-410-200
4. Discuss removal and replacement of the Canopy seal control valve. REF: A1-AV8BB-410-300
5. Discuss removal and replacement of the pressure regulator & check valve. REF: A1-AV8BB-410-300
6. Discuss removal and replacement of the Pressure seal bellows. REF: A1-AV8BB-410-300
7. Discuss removal and replacement of the Pressure seal. REF: A1-AV8BB-410-300

J. SUMMARY: During this period of instruction we covered Canopy seal system principles of operation, testing, troubleshooting, and maintenance procedures.

K. QUESTION AND ANSWERS:

AV8B MAINTENANCE TRAINING

LESSON GUIDE NUMBER: MOS 6282 B.08 (A-D)

FORWARD AVIONICS COOLING SYSTEM

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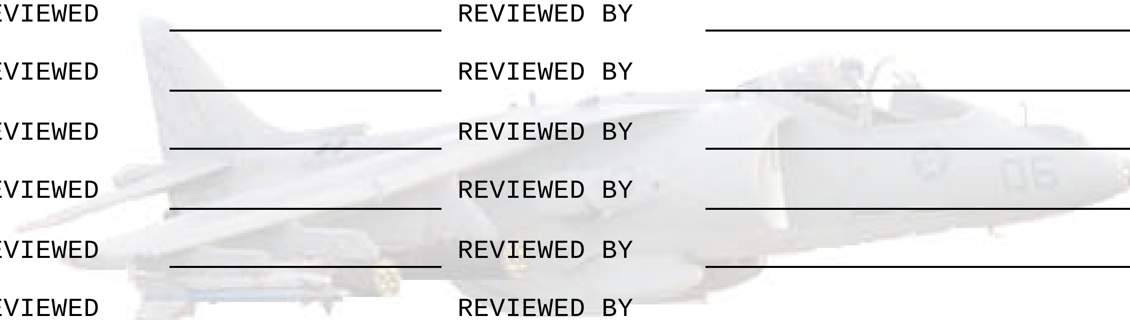

A. LECTURE NUMBER: MOS 6282 B.08 (A-D)

B. TIME: 1.5 Hours

C. DATE PREPARED: 31 Mar 04

D. DATE REVIEWED: On separate sheet

E. TITLE: Forward avionics cooling System

F. OBJECTIVE: Student will be able to demonstrate/apply knowledge of the Forward avionics cooling system principles of operation, testing, troubleshooting, and maintenance procedures.

G. INSTRUCTIONAL AIDES:

H. REFERENCES:

1. OPNAVINST 4790.2_, Naval Aviation Maintenance Program
2. A1-AV8BB-410-100, ORGANIZATIONAL MAINTENANCE PRINCIPLES OF OPERATION ENVIRONMENTAL CONTROL SYSTEM
3. A1-AV8BB-410-200, ORGANIZATIONAL MAINTENANCE TESTING AND TROUBLESHOOTING ENVIRONMENTAL CONTROL SYSTEM
4. A1-AV8BB-410-300, ORGANIZATIONAL MAINTENANCE SYSTEM MAINTENANCE WITH IPB ENVIRONMENTAL CONTROL SYSTEM

I. PRESENTATION: NOTE: Stress all WARNINGS, CAUTIONS and NOTES.

1. Discuss the principles of operation for the Forward avionics cooling System. REF: A1-AV8BB-410-100
2. Discuss the testing procedures for the Forward avionics cooling System. REF: A1-AV8BB-410-200
3. Discuss the troubleshooting of the Forward avionics cooling System. REF: A1-AV8BB-410-200
4. Discuss removal and replacement of the ram air vent check valve. REF: A1-AV8BB-410-300
5. Discuss removal and replacement of the ground-cooling valve. REF: A1-AV8BB-410-300
6. Discuss removal and replacement of the ground-cooling fan. REF: A1-AV8BB-410-300
7. Discuss removal and replacement of the ground-cooling fan speed sensor. REF: A1-AV8BB-410-300
8. Discuss removal and replacement of the ground-cooling control valve. REF: A1-AV8BB-410-300
9. Discuss removal and replacement of the cockpit avionics-cooling fan. REF: A1-AV8BB-410-300

J. SUMMARY: During this period of instruction we covered Forward avionics cooling system principles of operation, testing, troubleshooting, and maintenance procedures.

K. QUESTION AND ANSWERS:

AV8B MAINTENANCE TRAINING

LESSON GUIDE NUMBER: MOS 6282 B.09 (A-D)

ON-BOARD OXYGEN GENERATING SYSTEM (OBOGS)

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A. LECTURE NUMBER: MOS 6282 B.09 (A-D)

B. TIME: 1.5 Hours

C. DATE PREPARED: 31 Mar 04

D. DATE REVIEWED: On separate sheet

E. TITLE: On-Board Oxygen Generating System (OBOGS)

F. OBJECTIVE: Student will be able to demonstrate/apply knowledge of the OBOGS principles of operation, testing, troubleshooting, and maintenance procedures.

G. INSTRUCTIONAL AIDES:

H. REFERENCES:

1. OPNAVINST 4790.2_, Naval Aviation Maintenance Program
2. A1-AV8BB-410-100, ORGANIZATIONAL MAINTENANCE PRINCIPLES OF OPERATION ENVIRONMENTAL CONTROL SYSTEM
3. A1-AV8BB-410-200, ORGANIZATIONAL MAINTENANCE TESTING AND TROUBLESHOOTING ENVIRONMENTAL CONTROL SYSTEM
4. A1-AV8BB-410-300, ORGANIZATIONAL MAINTENANCE SYSTEM MAINTENANCE WITH IPB ENVIRONMENTAL CONTROL SYSTEM

I. PRESENTATION: NOTE: Stress all WARNINGS, CAUTIONS and NOTES.

1. Discuss the principles of operation for the OBOGS. REF: A1-AV8BB-410-100
2. Discuss the testing procedures for the OBOGS. REF: A1-AV8BB-410-200
3. Discuss the troubleshooting of the OBOGS. REF: A1-AV8BB-410-200
4. Discuss removal and replacement of the oxygen disconnect. REF: A1-AV8BB-410-300
5. Discuss removal and replacement of the bleed air shutoff valve. REF: A1-AV8BB-410-300
6. Discuss removal and replacement of the heat exchanger ejector filter. REF: A1-AV8BB-410-300
7. Discuss removal and replacement of the overtemperature switch. REF: A1-AV8BB-410-300
8. Discuss removal and replacement of the oxygen concentrator. REF: A1-AV8BB-410-300
9. Discuss removal and replacement of the oxygen monitor. REF: A1-AV8BB-410-300
10. Discuss removal and replacement of the OBOGS heat exchanger. REF: A1-AV8BB-410-300

J. SUMMARY: During this period of instruction we covered OBOGS principles of operation, testing, troubleshooting, and maintenance procedures.

K. QUESTION AND ANSWERS:

AV8B MAINTENANCE TRAINING

LESSON GUIDE NUMBER: MOS 6282 B.10 (A-D)

REAR EQUIPMENT COOLING SYSTEM

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A. LECTURE NUMBER: MOS 6282 B.10 (A-D)

B. TIME: 1.5 Hours

C. DATE PREPARED: 31 Mar 04

D. DATE REVIEWED: On separate sheet

E. TITLE: Rear Equipment Cooling System

F. OBJECTIVE: Student will be able to demonstrate/apply knowledge of the Rear Equipment Cooling System principles of operation, testing, troubleshooting, and maintenance procedures.

G. INSTRUCTIONAL AIDES:

H. REFERENCES:

1. OPNAVINST 4790.2_, Naval Aviation Maintenance Program
2. A1-AV8BC-410-100, ORGANIZATIONAL MAINTENANCE PRINCIPLES OF OPERATION ENVIRONMENTAL CONTROL SYSTEM
3. A1-AV8BC-410-200, ORGANIZATIONAL MAINTENANCE TESTING AND TROUBLESHOOTING ENVIRONMENTAL CONTROL SYSTEM
4. A1-AV8BC-410-300, ORGANIZATIONAL MAINTENANCE SYSTEM MAINTENANCE WITH IPB ENVIRONMENTAL CONTROL SYSTEM

I. PRESENTATION: NOTE: Stress all WARNINGS, CAUTIONS and NOTES.

1. Discuss the principles of operation for the Rear Equipment Cooling System. REF: A1-AV8BC-410-100
2. Discuss the testing procedures for the Rear Equipment Cooling System. REF: A1-AV8BC-410-200
3. Discuss the troubleshooting of the Rear Equipment Cooling System. REF: A1-AV8BC-410-200
4. Discuss removal and replacement of the air inlet temperature switch. REF: A1-AV8BC-410-300
5. Discuss removal and replacement of the cold air unit. REF: A1-AV8BC-410-300
6. Discuss removal and replacement of the ground-cooling fan. REF: A1-AV8BC-410-300
7. Discuss removal and replacement of the ground-cooling fan pressure switch. REF: A1-AV8BC-410-300
8. Discuss removal and replacement of the ground-cooling fan speed sensor. REF: A1-AV8BC-410-300
9. Discuss removal and replacement of the ground-cooling valve. REF: A1-AV8BC-410-300
10. Discuss removal and replacement of the pressure reducing & shutoff valve. REF: A1-AV8BC-410-300
11. Discuss removal and replacement of the temperature sensor. REF: A1-AV8BC-410-300

12. Discuss removal and replacement of the temperature control valve. REF: A1-AV8BC-410-300
13. Discuss removal and replacement of the ECS air filter. REF: A1-AV8BC-410-300
14. Discuss removal and replacement of the ECS check valve. REF: A1-AV8BC-410-300

J. SUMMARY: During this period of instruction we covered Rear Equipment Cooling System principles of operation, testing, troubleshooting, and maintenance procedures.

K. QUESTION AND ANSWERS:

AV8B MAINTENANCE TRAINING

LESSON GUIDE NUMBER: MOS 6282 B.11 (A-B)

TAV-8B EJECTION SEAT SYSTEM

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A. LECTURE NUMBER: MOS 6282 B.11 (A-B)

B. TIME: 1.5 Hours

C. DATE PREPARED: 31 Mar 04

D. DATE REVIEWED: On separate sheet

E. TITLE: TAV-8B Ejection Seat System

F. OBJECTIVE: Student will be able to demonstrate/apply knowledge of the TAV-8B Ejection Seat System principles of operation, testing, and maintenance procedures.

G. INSTRUCTIONAL AIDES:

H. REFERENCES:

1. OPNAVINST 4790.2_, Naval Aviation Maintenance Program
2. A1-AV8BB-120-100, ORGANIZATIONAL MAINTENANCE PRINCIPLES OF OPERATION EJECTION SEAT AND CANOPY SYSTEM
3. A1-AV8BB-120-200, ORGANIZATIONAL MAINTENANCE TESTING AND TROUBLESHOOTING EJECTION SEAT AND CANOPY SYSTEM
4. A1-AV8BC-120-300, ORGANIZATIONAL MAINTENANCE SYSTEM MAINTENANCE WITH IPB EJECTION SEAT AND CANOPY SYSTEM
5. A1-AV8BC-120-350, ORGANIZATIONAL MAINTENANCE SYSTEM MAINTENANCE WITH IPB (SHOP MAINTENANCE) AIRCRAFT EJECTION SEAT SJU-4/A

I. PRESENTATION: NOTE: Stress all WARNINGS, CAUTIONS and NOTES.

1. Discuss the principles of operation for the TAV-8B Ejection Seat System. REF: A1-AV8BB-120-100
2. Discuss the testing procedures for the TAV-8B Ejection Seat System. REF: A1-AV8BB-120-200
3. Discuss removal and replacement of the Ejection seat (SJU-13/A). REF: A1-AV8BC-120-300
4. Discuss removal and replacement of the Ejection seat (SJU-14/A). REF: A1-AV8BC-120-300
5. Discuss removal and replacement of the cockpit airspeed/altitude sensor. REF: A1-AV8BC-120-300
6. Discuss removal and replacement of the thruster assembly, fwd. REF: A1-AV8BC-120-300
7. Discuss removal and replacement of the thruster assembly, rear. REF: A1-AV8BC-120-300
8. Discuss removal and replacement of the 0.4 second delay initiator. REF: A1-AV8BC-120-350
9. Discuss removal and replacement of the divergence rocket motors. REF: A1-AV8BC-120-350

10. Discuss removal and replacement of the ejection mode selector. REF: A1-AV8BC-120-350

J. SUMMARY: During this period of instruction we covered TAV-8B Ejection Seat System principles of operation, testing, and maintenance procedures.

K. QUESTION AND ANSWERS:

AV8B MAINTENANCE TRAINING

LESSON GUIDE NUMBER: MOS 6282 B.12 (A-D)

TAV-8B CANOPY SYSTEM

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A. LECTURE NUMBER: MOS 6282 B.12 (A-D)

B. TIME: 1.5 Hours

C. DATE PREPARED: 31 Mar 04

D. DATE REVIEWED: On separate sheet

E. TITLE: TAV-8B Canopy System

F. OBJECTIVE: Student will be able to demonstrate/apply knowledge of the TAV-8B Canopy System principles of operation, testing, troubleshooting, and maintenance procedures.

G. INSTRUCTIONAL AIDES:

H. REFERENCES:

1. OPNAVINST 4790.2_, Naval Aviation Maintenance Program
2. A1-AV8BB-120-100, ORGANIZATIONAL MAINTENANCE PRINCIPLES OF OPERATION EJECTION SEAT AND CANOPY SYSTEM
3. A1-AV8BB-120-200, ORGANIZATIONAL MAINTENANCE TESTING AND TROUBLESHOOTING EJECTION SEAT AND CANOPY SYSTEM
4. A1-AV8BC-120-300, ORGANIZATIONAL MAINTENANCE SYSTEM MAINTENANCE WITH IPB EJECTION SEAT AND CANOPY SYSTEM
5. A1-AV8BC-SRM-220, ORGANIZATIONAL, INTERMEDIATE, AND DEPOT MAINTENANCE STRUCTURE REPAIR WITH ILLUSTRATED PARTS BREAKDOWN FORWARD FUSELAGE

I. PRESENTATION: NOTE: Stress all WARNINGS, CAUTIONS and NOTES.

1. Discuss the principles of operation for the TAV-8B Canopy System. REF: A1-AV8BB-120-100
2. Discuss the testing procedures for the TAV-8B Canopy System. REF: A1-AV8BB-120-200
3. Discuss the troubleshooting procedures for the TAV-8B Canopy System. REF: A1-AV8BB-120-200
4. Discuss removal and replacement of the canopy assembly Fwd. REF: A1-AV8BC-120-300
5. Discuss removal and replacement of the canopy assembly Rear. REF: A1-AV8BC-120-300
6. Discuss removal and replacement of the flexible confined detonation cord (FCDC). REF: A1-AV8BC-120-300
7. Discuss removal and replacement of the dampner. REF: A1-AV8BC-120-300
8. Discuss removal and replacement of the fwd/rear canopy lock switches. REF: A1-AV8BC-120-300
9. Discuss removal and replacement of the canopy fracturing MDC (overhead). REF: A1-AV8BC-120-300
10. Discuss removal and replacement of the canopy fracturing MDC (peripheral). REF: A1-AV8BC-120-300

11. Discuss removal and replacement of the canopy mounted shielded MDC (SMDC). REF: A1-AV8BC-120-300
12. Discuss performing canopy damage evaluation. REF: A1-AV8BC-SRM-220
13. Discuss the 4W23 SMDC kit. REF: A1-AV8BC-120-300

J. SUMMARY: During this period of instruction we covered TAV-8B Canopy System principles of operation, testing, troubleshooting, and maintenance procedures.

K. QUESTION AND ANSWERS:

AV8B MAINTENANCE TRAINING

LESSON GUIDE NUMBER: MOS 6282 B.13 (A-D)

TAV-8B CABIN COOLING AND DEFOG SYSTEM

	YR/MO/DAY		NAME/RANK
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A. LECTURE NUMBER: MOS 6282 B.13 (A-D)

B. TIME: 1.5 Hours

C. DATE PREPARED: 31 Mar 04

D. DATE REVIEWED: On separate sheet

E. TITLE: TAV-8B Cabin Cooling And Defog System

F. OBJECTIVE: Student will be able to demonstrate/apply knowledge of the TAV-8B Cabin Cooling And Defog System principles of operation, testing, troubleshooting, and maintenance procedures.

G. INSTRUCTIONAL AIDES:

H. REFERENCES:

1. OPNAVINST 4790.2_, Naval Aviation Maintenance Program
2. A1-AV8BC-410-100, ORGANIZATIONAL MAINTENANCE PRINCIPLES OF OPERATION ENVIRONMENTAL CONTROL SYSTEM
3. A1-AV8BC-410-200, ORGANIZATIONAL MAINTENANCE TESTING AND TROUBLESHOOTING ENVIRONMENTAL CONTROL SYSTEM
4. A1-AV8BC-410-300, ORGANIZATIONAL MAINTENANCE SYSTEM MAINTENANCE WITH IPB ENVIRONMENTAL CONTROL SYSTEM

I. PRESENTATION: NOTE: Stress all WARNINGS, CAUTIONS and NOTES.

1. Discuss the principles of operation for the TAV-8B Cabin Cooling And Defog System. REF: A1-AV8BC-410-100
2. Discuss the testing procedures for the TAV-8B Cabin Cooling And Defog System. REF: A1-AV8BC-410-200
3. Discuss the troubleshooting procedures for the TAV-8B Cabin Cooling And Defog System. REF: A1-AV8BC-410-200
4. Discuss removal and replacement of the Fwd vent/defog valve. REF: A1-AV8BC-410-300
5. Discuss removal and replacement of the rear vent/defog valve. REF: A1-AV8BC-410-300
6. Discuss removal and replacement of the windshield overtemp switch. REF: A1-AV8BC-410-300
7. Discuss removal and replacement of the cold air unit. REF: A1-AV8BC-410-300
8. Discuss removal and replacement of the water separator. REF: A1-AV8BC-410-300
9. Discuss removal and replacement of the temperature-regulating valve. REF: A1-AV8BC-410-300
10. Discuss removal and replacement of the cabin ECS regulating and shutoff valve. REF: A1-AV8BC-410-300

J. SUMMARY: During this period of instruction we covered TAV-8B Cabin Cooling And Defog System principles of operation, testing, troubleshooting, and maintenance procedures.

K. QUESTION AND ANSWERS:

AV8B MAINTENANCE TRAINING

LESSON GUIDE NUMBER: MOS 6282 B.14 (A-D)

TAV-8B CABIN PRESSURIZATION SYSTEM

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A. LECTURE NUMBER: MOS 6282 B.14 (A-D)

B. TIME: 1.5 Hours

C. DATE PREPARED: 31 Mar 04

D. DATE REVIEWED: On separate sheet

E. TITLE: TAV-8B Cabin Pressurization System

F. OBJECTIVE: Student will be able to demonstrate/apply knowledge of the TAV-8B Cabin Pressurization System principles of operation, testing, troubleshooting, and maintenance procedures.

G. INSTRUCTIONAL AIDES:

H. REFERENCES:

1. OPNAVINST 4790.2_, Naval Aviation Maintenance Program
2. A1-AV8BB-120-100, ORGANIZATIONAL MAINTENANCE PRINCIPLES OF OPERATION EJECTION SEAT AND CANOPY SYSTEM
3. A1-AV8BB-120-200, ORGANIZATIONAL MAINTENANCE TESTING AND TROUBLESHOOTING EJECTION SEAT AND CANOPY SYSTEM
4. A1-AV8BC-120-300, ORGANIZATIONAL MAINTENANCE SYSTEM MAINTENANCE WITH IPB EJECTION SEAT AND CANOPY SYSTEM

I. PRESENTATION: NOTE: Stress all WARNINGS, CAUTIONS and NOTES.

1. Discuss the principles of operation for the TAV-8B Cabin Pressurization System. REF: A1-AV8BB-120-100
2. Discuss the testing procedures for the TAV-8B Cabin Pressurization System. REF: A1-AV8BB-120-200
3. Discuss the troubleshooting procedures for the TAV-8B Cabin Pressurization System. REF: A1-AV8BB-120-200
4. Discuss removal and replacement of the cabin dump control valve. REF: A1-AV8BC-120-300
5. Discuss removal and replacement of the cabin safety relief valve. REF: A1-AV8BC-120-300

J. SUMMARY: During this period of instruction we covered TAV-8B Cabin Pressurization System principles of operation, testing, troubleshooting, and maintenance procedures.

K. QUESTION AND ANSWERS:

AV8B MAINTENANCE TRAINING

LESSON GUIDE NUMBER: MOS 6282 B.15 (A-D)

TAV-8B CANOPY SEAL SYSTEM

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A. LECTURE NUMBER: MOS 6282 B.15 (A-D)

B. TIME: 1.5 Hours

C. DATE PREPARED: 31 Mar 04

D. DATE REVIEWED: On separate sheet

E. TITLE: TAV-8B Canopy seal System

F. OBJECTIVE: Student will be able to demonstrate/apply knowledge of the TAV-8B Canopy seal System principles of operation, testing, troubleshooting, and maintenance procedures.

G. INSTRUCTIONAL AIDES:

H. REFERENCES:

1. OPNAVINST 4790.2_, Naval Aviation Maintenance Program
2. A1-AV8BC-410-100, ORGANIZATIONAL MAINTENANCE PRINCIPLES OF OPERATION ENVIRONMENTAL CONTROL SYSTEM
3. A1-AV8BC-410-200, ORGANIZATIONAL MAINTENANCE TESTING AND TROUBLESHOOTING ENVIRONMENTAL CONTROL SYSTEM
4. A1-AV8BC-410-300, ORGANIZATIONAL MAINTENANCE SYSTEM MAINTENANCE WITH IPB ENVIRONMENTAL CONTROL SYSTEM

I. PRESENTATION: NOTE: Stress all WARNINGS, CAUTIONS and NOTES.

1. Discuss the principles of operation for the TAV-8B Canopy seal System. REF: A1-AV8BC-410-100
2. Discuss the testing procedures for the TAV-8B Canopy seal System. REF: A1-AV8BC-410-200
3. Discuss the troubleshooting procedures for the TAV-8B Canopy seal System. REF: A1-AV8BC-410-200
4. Discuss removal and replacement of the canopy seal control valve. REF: A1-AV8BC-410-300
5. Discuss removal and replacement of the canopy seal pressure regulator & check valve. REF: A1-AV8BC-410-300
6. Discuss removal and replacement of the fwd canopy pressure seal. REF: A1-AV8BC-410-300
7. Discuss removal and replacement of the rear canopy pressure seal. REF: A1-AV8BC-410-300

J. SUMMARY: During this period of instruction we covered TAV-8B Canopy seal System principles of operation, testing, troubleshooting, and maintenance procedures.

K. QUESTION AND ANSWERS:

AV8B MAINTENANCE TRAINING

LESSON GUIDE NUMBER: MOS 6282 B.16 (A-D)

TAV-8B FORWARD AVIONICS COOLING SYSTEM

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A. LECTURE NUMBER: MOS 6282 B.16 (A-D)

B. TIME: 1.5 Hours

C. DATE PREPARED: 31 Mar 04

D. DATE REVIEWED: On separate sheet

E. TITLE: TAV-8B Forward avionics cooling System

F. OBJECTIVE: Student will be able to demonstrate/apply knowledge of the TAV-8B Forward avionics cooling system principles of operation, testing, troubleshooting, and maintenance procedures.

G. INSTRUCTIONAL AIDES:

H. REFERENCES:

1. OPNAVINST 4790.2_, Naval Aviation Maintenance Program
2. A1-AV8BC-410-100, ORGANIZATIONAL MAINTENANCE PRINCIPLES OF OPERATION ENVIRONMENTAL CONTROL SYSTEM
3. A1-AV8BC-410-200, ORGANIZATIONAL MAINTENANCE TESTING AND TROUBLESHOOTING ENVIRONMENTAL CONTROL SYSTEM
4. A1-AV8BC-410-300, ORGANIZATIONAL MAINTENANCE SYSTEM MAINTENANCE WITH IPB ENVIRONMENTAL CONTROL SYSTEM

I. PRESENTATION: NOTE: Stress all WARNINGS, CAUTIONS and NOTES.

1. Discuss the principles of operation for the TAV-8B Forward avionics cooling System. REF: A1-AV8BC-410-100
2. Discuss the testing procedures for the TAV-8B Forward avionics cooling System. REF: A1-AV8BC-410-200
3. Discuss the troubleshooting of the TAV-8B Forward avionics cooling System. REF: A1-AV8BC-410-200
4. Discuss removal and replacement of the ram air vent check valve. REF: A1-AV8BC-410-300
5. Discuss removal and replacement of the ground-cooling valve. REF: A1-AV8BC-410-300
6. Discuss removal and replacement of the ground-cooling fan. REF: A1-AV8BC-410-300
7. Discuss removal and replacement of the ground-cooling fan speed sensor. REF: A1-AV8BC-410-300
8. Discuss removal and replacement of the cockpit avionics-cooling fan. REF: A1-AV8BC-410-300
9. Discuss removal and replacement of the rear cockpit avionics-cooling fan. REF: A1-AV8BC-410-300

J. SUMMARY: During this period of instruction we covered TAV-8B Forward avionics cooling system principles of

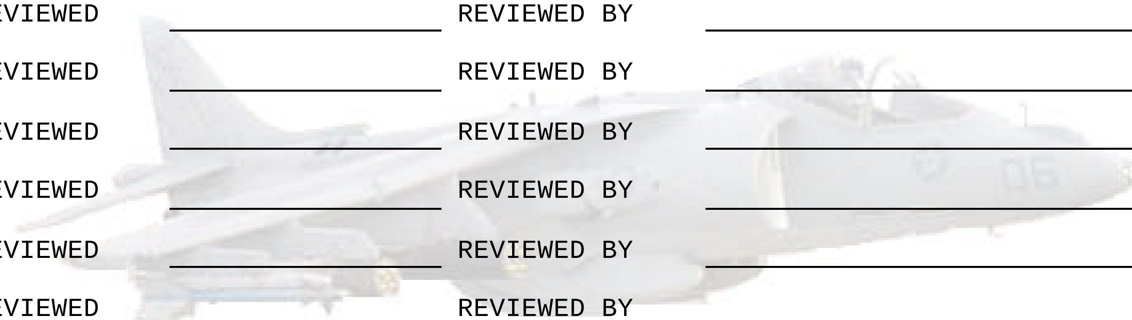
operation, testing, troubleshooting, and maintenance procedures.

K. QUESTION AND ANSWERS:

AV8B MAINTENANCE TRAINING

LESSON GUIDE NUMBER: MOS 6282 B.17 (A-D)

TAV-8B ON-BOARD OXYGEN GENERATING SYSTEM (OBOGS)



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A. LECTURE NUMBER: MOS 6282 B.17 (A-D)

B. TIME: 1.5 Hours

C. DATE PREPARED: 31 Mar 04

D. DATE REVIEWED: On separate sheet

E. TITLE: TAV-8B On-Board Oxygen Generating System (OBOGS)

F. OBJECTIVE: Student will be able to demonstrate/apply knowledge of the TAV-8B OBOGS principles of operation, testing, troubleshooting, and maintenance procedures.

G. INSTRUCTIONAL AIDES:

H. REFERENCES:

1. OPNAVINST 4790.2_, Naval Aviation Maintenance Program
2. A1-AV8BB-410-100, ORGANIZATIONAL MAINTENANCE PRINCIPLES OF OPERATION ENVIRONMENTAL CONTROL SYSTEM
3. A1-AV8BB-410-200, ORGANIZATIONAL MAINTENANCE TESTING AND TROUBLESHOOTING ENVIRONMENTAL CONTROL SYSTEM
4. A1-AV8BB-410-300, ORGANIZATIONAL MAINTENANCE SYSTEM MAINTENANCE WITH IPB ENVIRONMENTAL CONTROL SYSTEM

I. PRESENTATION: NOTE: Stress all WARNINGS, CAUTIONS and NOTES.

1. Discuss the principles of operation for the TAV-8B OBOGS. REF: A1-AV8BB-410-100
2. Discuss the testing procedures for the TAV-8B OBOGS. REF: A1-AV8BB-410-200
3. Discuss the troubleshooting of the TAV-8B OBOGS. REF: A1-AV8BB-410-200
4. Discuss removal and replacement of the overtemperature switch. REF: A1-AV8BB-410-300
5. Discuss removal and replacement of the oxygen concentrator. REF: A1-AV8BB-410-300

J. SUMMARY: During this period of instruction we covered TAV-8B OBOGS principles of operation, testing, troubleshooting, and maintenance procedures.

K. QUESTION AND ANSWERS:

AV8B MAINTENANCE TRAINING

LESSON GUIDE NUMBER: MOS 6282 B.18 (A-D)

RADAR SET

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A. LECTURE NUMBER: MOS 6282 B.18 (A-D)

B. TIME: 1.5 Hours

C. DATE PREPARED: 31 Mar 04

D. DATE REVIEWED: On separate sheet

E. TITLE: RADAR Set

F. OBJECTIVE: Student will be able to demonstrate/apply knowledge of the RADAR Set principles of operation, testing, troubleshooting, and maintenance procedures.

G. INSTRUCTIONAL AIDES:

H. REFERENCES:

1. OPNAVINST 4790.2_, Naval Aviation Maintenance Program
2. A1-AV8BE-410-100, ORGANIZATIONAL MAINTENANCE PRINCIPLES OF OPERATION ENVIRONMENTAL CONTROL SYSTEM
3. A1-AV8BE-410-200, ORGANIZATIONAL MAINTENANCE TESTING AND TROUBLESHOOTING ENVIRONMENTAL CONTROL SYSTEM
4. A1-AV8BE-410-300, ORGANIZATIONAL MAINTENANCE SYSTEM MAINTENANCE WITH IPB ENVIRONMENTAL CONTROL SYSTEM

I. PRESENTATION: NOTE: Stress all WARNINGS, CAUTIONS and NOTES.

1. Discuss the principles of operation for the Waveguide pressurization system. REF: A1-AV8BE-410-100
2. Discuss the principles of operation for the Radar liquid cooling system. REF: A1-AV8BE-410-100
3. Discuss the testing procedures for the Waveguide pressurization system. REF: A1-AV8BE-410-200
4. Discuss the testing procedures for the Radar liquid cooling system. REF: A1-AV8BE-410-200
5. Discuss the troubleshooting of the Waveguide pressurization system. REF: A1-AV8BE-410-200
6. Discuss the troubleshooting of the Radar liquid cooling system. REF: A1-AV8BE-410-200
7. Discuss removal and replacement of the Waveguide pressure-regulating valve. REF: A1-AV8BE-410-300
8. Discuss removal and replacement of the Desicator. REF: A1-AV8BE-410-300
9. Discuss removal and replacement of the waveguide filter. REF: A1-AV8BE-410-300
10. Discuss removal and replacement of the liquid/air heat exchanger. REF: A1-AV8BE-410-300
11. Discuss removal and replacement of the centrifugal pump unit/reservoir. REF: A1-AV8BE-410-300

12. Discuss removal and replacement of the liquid cooling fluid filter. REF: A1-AV8BE-410-300
13. Discuss removal and replacement of the low pressure switch. REF: A1-AV8BE-410-300
14. Discuss removal and replacement of the high temperature switch. REF: A1-AV8BE-410-300
15. Discuss removal and replacement of the coolant check valve. REF: A1-AV8BE-410-300
16. Discuss removal and replacement of the bleed valve. REF: A1-AV8BE-410-300

J. SUMMARY: During this period of instruction we covered RADAR Set principles of operation, testing, troubleshooting, and maintenance procedures.

K. QUESTION AND ANSWERS:

AV8B MAINTENANCE TRAINING

LESSON GUIDE NUMBER: MOS 6282 B.19 (A-D)

RADAR ENVIRONMENTAL CONTROL SYSTEMS (ECS)

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A. LECTURE NUMBER: MOS 6282 B.19 (A-D)

B. TIME: 1.5 Hours

C. DATE PREPARED: 31 Mar 04

D. DATE REVIEWED: On separate sheet

E. TITLE: RADAR Environmental Control Systems (ECS)

F. OBJECTIVE: Student will be able to demonstrate/apply knowledge of the RADAR ECS theory of operation, testing, troubleshooting, and maintenance procedures.

G. INSTRUCTIONAL AIDES:

H. REFERENCES:

1. OPNAVINST 4790.2_, Naval Aviation Maintenance Program
2. A1-AV8BE-410-100, ORGANIZATIONAL MAINTENANCE PRINCIPLES OF OPERATION ENVIRONMENTAL CONTROL SYSTEM
3. A1-AV8BE-410-200, ORGANIZATIONAL MAINTENANCE TESTING AND TROUBLESHOOTING ENVIRONMENTAL CONTROL SYSTEM
4. A1-AV8BE-410-300, ORGANIZATIONAL MAINTENANCE SYSTEM MAINTENANCE WITH IPB ENVIRONMENTAL CONTROL SYSTEM

I. PRESENTATION: NOTE: Stress all WARNINGS, CAUTIONS and NOTES.

1. Discuss the theory of operation for the RADAR ECS. REF: A1-AV8BE-410-100
2. Discuss the testing procedures for the RADAR ECS. REF: A1-AV8BE-410-200
3. Discuss the troubleshooting of the RADAR ECS. REF: A1-AV8BE-410-200
4. Discuss removal and replacement of the bleed air overpressure switch. REF: A1-AV8BE-410-300
5. Discuss removal and replacement of the turbine inlet temperature switch. REF: A1-AV8BE-410-300
6. Discuss removal and replacement of the ram air pressure switch. REF: A1-AV8BE-410-300
7. Discuss removal and replacement of the avionics auxiliary cooling valve. REF: A1-AV8BE-410-300
8. Discuss removal and replacement of the transmitter auxiliary cooling valve. REF: A1-AV8BE-410-300
9. Discuss removal and replacement of the servo air filter. REF: A1-AV8BE-410-300
10. Discuss removal and replacement of the equipment line to rack non-return valve. REF: A1-AV8BE-410-300
11. Discuss removal and replacement of the two-way valve (2”). REF: A1-AV8BE-410-300

12. Discuss removal and replacement of the two-way valve (3.5”). REF: A1-AV8BE-410-300
13. Discuss removal and replacement of the temperature control valve. REF: A1-AV8BE-410-300
14. Discuss removal and replacement of the avionics auxiliary cooling fan. REF: A1-AV8BE-410-300
15. Discuss removal and replacement of the ground cooling control valve. REF: A1-AV8BE-410-300
16. Discuss removal and replacement of the temperature control valve. REF: A1-AV8BE-410-300
17. Discuss removal and replacement of the temperature controller. REF: A1-AV8BE-410-300

J. SUMMARY: During this period of instruction we covered RADAR ECS theory of operation, testing, troubleshooting, and maintenance procedures.

K. QUESTION AND ANSWERS: